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添付公開書類:

— 国際調査報告書

2 文字コード及び他の略語については、定期発行される  
各PCTガゼットの巻頭に掲載されている「コードと略語  
のガイダンスノート」を参照。

(54) Title: PROTEIN CAPABLE OF BINDING PLASTICIZER

(54) 発明の名称: 可塑剤に対する結合能を有する蛋白質

(57) Abstract: A protein capable of binding a plasticizer, which protein has acquired useful properties such as those of, in the assay, quantitative determination or concentrating of plasticizer, exhibiting high sensitivity, less cross reactivity, resistance to influence from interfering substances and resistance to influence from solvents. In particular, a modified protein whose various properties, such as affinity for a plasticizer as antigen, antigen binding capacity, cross reactivity, tolerance to a substance interfering with an antigen-antibody reaction, tolerance to a substance interfering with an enzymatic color development reaction, resistance to a solvent, etc., have been improved by the technology of genetic manipulation.

(57) 要約: 本発明は、可塑剤の測定・定量や濃縮に際し、感度の良い、交叉反応性の少ない、妨害物質の影響を受けにくい、溶媒による影響を受けにくい等の有用な性質を付加した、可塑剤に対する結合能を有する蛋白質を提供する。具体的には、抗原としての可塑剤に対する親和性、抗原結合能、交叉反応性、抗原抗体反応妨害物質耐性、酵素発色反応妨害物質耐性、溶媒耐性等の種々の性質を遺伝子組換え技術により向上させた改変蛋白質を提供する。

WO 2004/092370 A1

## INTERNATIONAL SEARCH REPORT

International application No.

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## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> C12N15/09, C07K16/44, C12P21/02, C12N1/15, C12N1/19, C12N1/21,  
C12N5/10, G01N33/53

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> C12N15/09, C07K16/44, C12P21/02, C12N1/15, C12N1/19, C12N1/21,  
C12N5/10, G01N33/53

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

BIOSIS/WPI (DIALOG), MEDLINE (STN), JSTPlus/JST7580 (JOIS),  
SwissProt/PIR/GeneSeq, GenBank/EMBL/DDBJ/GeneSeq

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Shigeru FUJIMOTO et al., "ELISA-ho o Mochiita Kanben na Naibunpitsu Kakuran Kagaku Busshitsu Sokuteiho", Japanese Journal of Clinical Medicine, 2000, Vol.58, No.12, pages 2491 to 2494	1-17
X	WO 99/43799 A1 (TAKEDA CHEMICAL INDUSTRIES, LTD.), 02 September, 1999 (02.09.99), & EP 1057890 A1 & JP 2000-533539 A & US 2003/0087324 A1	1-2, 4-17
A	Gavilondo-Cowley J.V. et al., Specific amplification of rearranged immunoglobulin variable region genes from mouse hybridoma cells, Hybridoma, 1990, Vol.9, No.5, pages 407 to 417	1-17

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

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